

What Is Claimed:

1. A packer cup for use sealing an annulus within a pipe comprising:  
an elongated, hollow sleeve having first and second end openings disposed, coaxially, along the longitudinal axis of said sleeve, said sleeve having a bell-shaped portion surrounding the first end and a tubular portion surrounding the second opening; said bell-shaped portion having an outer diameter adapted to be slightly less than the inner diameter of said pipe; a lip surrounding said first opening integral with said sleeve, said sleeve and lip being constructed of an elastomeric material with said lip of a lower density and harder material than said sleeve.
2. The cup of claim 1 wherein said sleeve and lip are constructed from polyurethane
3. The cup of claim 1 further comprising a metal sleeve disposed in said elastomer sleeve disposed within the second opening.
4. The cup of claim 3 wherein said metal sleeve is secured within said cup by adhesive.
5. The cup of claim 2 wherein the density of said lip is about 1.07 and said sleeve has a density of about 1.3.
6. The cup of claim 2 wherein said sleeve is about 0.2 denser than said lip.
7. The cup of claim 2 wherein the hardness of the lip is about 60 SHORE D.
8. The cup of claim 7 wherein the sleeve has a hardness of 80-95 SHORE A.